



TIME WAS when planes were either grounded whenever icing conditions occurred, or ran the risk of crashing if they flew.

Old-time pilots, faced with the hazard of wings and props "icing up" during flight, were forced to descend to warmer altitudes in an effort to thaw and "shake off" the dangerous ice formations. Many devices were tried, then Goodyear—working with the National Research Council of Canada—developed the Electro-Thermal Iceguard . . .

planes fly safely even when the most difficult icing conditions prevail, thanks to this longuard principle. This successful and less complex process of ice elimination embodies a shield of electrically heated conductive rubber which can be used for either continuous or cycling heating action on wings, stabilizers, ducts, antenna-masts, propeller blades and cuffs—tailored to the needs of any aircraft.

This is an example of but one of many Goodyear Aviation Products which are serving aviation today. Goodyear has been contributing to aviation progress since 1909.

Goodyear, Aviation Products Division



ZENTRI PLASTICS CO.



WITH MICROSCOPIC PRECISION

ment were factory brown that hell havemony moving parts and shafe, both in work are maintidend by New Deporture . . . Scooth New Departure half bearing for all







Teal Experts Know. and Even Gheats ... that PROTO means PROfessional

T Cols!

The PERSON Date Includes Winterland Plan

his reason who PHOTO tools balanced, may bendfor and nafety are due to properly enselvatific heat treature. Bay PROTO, the truly genferrienal tools, from your dealer today.

FIRMS TOOL TOMBARY 22210 Sorts Fe Ave. Las Angeles 54, Colif.

Aviation Week Volume 55

Babert B. Hote Albert W. Broke New Eddor Scott Edware New Products Abundo Militario ... Apatino falety Error I Bullian ... Sound Assessments Engreering Richard Schooling Federal Agencies

Yungar Vitina Ganili Edited Mikesp. Polic Kiss Avissire Let T Treey Pineline & Production DOMESTIC NEWS BUSINESS.

FOREIGN NEWS BUNEAUS Paris Scott Harring Birds Desires Lead J Finites

Funkfart Coold W. Schooler Toller Alphem W. Joseph Mask ... Hobert Leopold Correspondents in all mass often

E. G. Johnson Paramer Manager Substitutional Control of the P. School, Clerked, L. J. Soi, Choose W. E. Dongell, St. Louit, E. P. Ebrecherd, Jr., Beston, Jenes Coh., Bullet, S. C. Muckly, Admir. S. F. Darloof, Sr. San Francisco, C. F. McRerrolds, Lor. Apprice W. S. Henry, Philadelphia. Other sales offices in Frinteegh, Detroit, London

new And Publishing Commercials. Joseph II. Made and State Printed. Printed. It has yet been at the control of the party of the party



New Albertanh rom oir turbine does a 250 pound job for lets ... welchs only 17 pounds f 2000 mail derbroads control.

At hert is highe scriptle emergency person Afficecarch rain air tugbine develope a 136 knots to above Much I ... or nay ehant: It is now in production.

candensur storage betteries and · Supplies enough power to operate a electric section,

· Sever more than 200 paraulal This rum air turbine is another entemple Would you like to week with me?

AiResearch Manufacturing Communication A DIVISION OF THE GARRETT CORPORATION TOT ANGELES AS, CATTORNIA - PROPER, ARTONIA DESIGNER AND MANUFACTURER OF ANCRAFT EQUIPMENT IN THESE WANDS CARROCRUST





When Zero equals Five

Yes-Wan fact-the Santy Zeo Render* "sero". . Is always used as the same Plant Director questions information resource, whether for Insurely critical question provides flight And the end specified by the hope instruments, the for for rank melanding separation under all such everyth and development will

enso horizon, directional erro, manaetia - rough conditions. Widely accorded for multury, passanger, and executive planes, the Fluids Direc-



CREAT NEGE, NEW YORK - CLEVELAND - NEW GOLEANS - EDGOSLYS - LOS ANGELES - SEATTLE - SAN FRANCISCO

NEWS DIGEST

Domestic

sion MiCs or Keeps, North Assessment in the 658-suph cless, has a combat radius of caper then 500 ms and a managem cerbog of 15,000 ft. Com-

Air Line Pilets Asso, and health to first Frencery, Boring Sight test third; areasafety engancer Tonoscen Air Lines' DC-4 couled

civilian crew of five. The plane had been chartered by MATE. Helicoster apenation in ordine terms

den, Cdf., with first democatrition.

Circlin plans production has been stepped up by Paper Aircraft Corp., Lack Haven, Pa . to 10 aircraft a day to so effect to reduce the correspond EXILITION WEEK House IN 1919.

Acre Service Corp. Philadelphia has Einancial Spendonesias Addines Sentem has the possest fixed year, highest as the Form \$1,270,103 or 1951 to \$266,340

797. The corpor's 1952 income con-

rootes, copital game of \$752,400 and a

\$1,577,000 less on softmentanal

Jones Honovech, morager of Con-



pit terison under event good after the Title They will be used to indoctiont not feed year, 200% higher than a Kesson Alegalt Corp., Worden Locks Cown, had a burklor of raper

Solar Assenti Co., San Diego, Isas authousand endocustion of \$5,000 of the Philadelphar's new \$15 cultion fator-

> International Desgles DC-68s will be substituted for de Basillond Cornet 2s to new trees-

Plot ict carbic cumptomore plant in

Three Course 36th have been out. hose for delivery in April, June and

For your consenience me've filed our catalog in the Institute of the Aeronautical Sciences ENGINEERING CATALOG Consult of the provident data on Air-



The Aviation Week Merch 30, 1953 Spread Engeneiro Neue Perk S200 Lh Thouse Seen by 1860 See Neuerl for MEA Transcent

Accompation Engineering none Reard on Byrolan Joh Production

Aviation Safety CAR Sterney Deer-Closing Core 65

Florb Asserme Berge Mode Ender ... 42 New Toking Plettings Cod Lenkage 6 Air Transport

Editorials Departments

Sras Dend Or Cester ... Armining Calendar PICTURE CREDITS

THEORY ! ACCESSORIES CORPORATION

Aircraft Radio Corporation



in THIS Cockpit! Ws Equipped with the -ARC

CHANNEL **ISOLATOR**



· Prinate Input Channel . Herdebones buleatly

radio restrano with the ARC about as desired Print and ence-ne officiency plus in com-



DONVAIR TURBOPROF TRANS PORT-Model (right) of the Converstrike acres the Parise each seal rear secretary to offered service. Some firms change from the XFSY I materies are shorter pary developin and talpaper Worster fluid strain have been extend to Tradevised is fitted with art combinating. and either neighbor crokers. 15th one store





Plane News in Pictures

NEW DIP LICENTEANS-Passed to meted engenerag stolents at Nikos road is 117 wash and creaming reduce in

MODERNIZED MARATORR - 5 Transperse Co. to espekte keason hous headed by Adknowth Awaren the Carall Colp. New York A. \$2500 caring of sheet 7,400 he notice



Remington Rand Methods News

Which answer is correct for your payroll problem?

the againstmance experimensions who lake or reached all the war at his arm with half our end necessor, It gives a graphic person of the jobs counting up for each some half is special written mechanism. Income helps of distinction measurements errors pumplifies the conting of each job. Use as the method featured as Christian Management How. Ours he for Sough Farrors, Also on subshifting control KD 341.

in our new case better SPTM-4218. How to cut drafting costs



Remington Rand



but not sacrifice quality

X-521 P-585 P-524

WHO'S WHERE

In the Fount Office lower W. Arten, Dalley burker and R. S. Ingonoli, prostent of Improci-

Change & Southern Air Lines, will be removed dentities of Belts CAS who has been expensed evident to the president. Hardd W. Huster has been named with percelest manufacturing and May Gon. Balgh C. Reyce (USAF Ret.) has been Max Keng and Ray Contains are new vine read sentant to the product of Sprague Electric Co., North Adems, Man

Changes

Thomas Z. Figure has been presented to depote of sales and accepts and Welliam A. Une to proceed take remaps of Scoutilis Magneto Dyenca, Bendix Avadim Carp. cost Standard: Committee and charmon mined Electer Lecture Com, Indianapo Phila F. Sandell is chief connect of C. Clinton Housepull has been possible chief engineer of Some-Tele

William E. Balliam has been ramed

charl regimer at Northeon Arrests, Inc.

ésective et projet engineering, likel-Cod Gordon W. Gobe in plant engineer at \$ 3350.05 Traba Communal region rated at \$ 600 hrs. Chaparlet has Challe D. Annhous has been consisted director of processors of First Instrument Co., Long March Cop., N. Y.

Honors and Elections

In Promotion Architecturally models a pain of the promoted on S. S. eff. Throughout streaks for expensionated use in personic fighters along extensivity on a

* Dearlie Ascent is emission the possibilities of the concent wine for its DC-5 set transport. Early deal; models of the DC-5 distributed to

INDUSTRY OBSERVER

Lee Angeles Airways and Accept me working on a project to fit rocket matters in the point blade time of the Sikonity 5-55 belonger for some pency power. Armiet has developed as installation kit in the S-35 votes. Charace Relina, LAA paradent, believes that this applemental power will remain a secretional advance in behaveter safety and performance. · Boring Withole is torting aluminum rich containing steading steel war the alarments must with steel sweets meteod of all steel muts expectedly will start in supportant which severe in the E-47 serioras.

* Rayal Air Facos pleas to suppliest its Gloster Meteor photo-recommiscapes above with a needy developed whote version of the Victors Sancemarine Selft. Photo-secon Conberns, but mine into EAF service. creatually will be replaced by a photo-reconstituting version of the Vallon Vakint multipat bomber. Smilts will do short-maps photo work with * First British sweptown; correctioned lighter has been cedested by the

displaced furthers are scheduled for service about the recently limeted P Ford RAF (at fainer order has gove to the Person) Proceed, powered by on Assertione Schlieby Vines turboast of 1,540 E, statio three. room is expected at a small of stream report by Badio Technical Common

return than come cristing 3,000 esc. or savietimes robus (ASK) to truproped represent but should solve problems represent such aid solve-* Als Force suggest to orifice of the Compa let trainer award on the grounds that it is a twinesons place and too complicated for a tensor, is that

controlled on centraryling production secret on earlier model R3152 capter and will need as nightional 590 workers over its present 2,700 P.Air Natination Development Basel secrets that indressent flight problems for hillconten are still not close to solution. ANDS ares 1.55

scoople on register by an sinker pilot to inflicte a control resocutent in

North Senso, nough souther at AVIATION WEEK, March 30, 1953

this are all feel record given you a visual parameter measures no. See our personnel nimel method which hindles recently to | 6% | 6% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60% | 60%

a tested method for countyl of attendence and ametodic. It's really account he

Washington Roundup

Procurement Shifts First effects of the Defense Department budget tight-

 Dougles C 17:4G (due primarily to shortages of licensee.) -151Cs to burning additional C-179s from Francial Beech also probably will be affected as its instacr

AMC Shokene

Engine Problem

Manuford Cearly down

Transport Assorates united CAE. The will reideably button of Assertion Art Transport of Mayer became of

too evaluat and me new hered from common restant reer charges for federal newtre, Rep. Carl Handow

User Chorge Showdown

shows in 1952 ways by crumy. The remarader 9.1 Converte Department's study on over charges for all types of federally karneed fundation is due for submission.

Air Sofety Shift

in the Office of Assetton Siders. Emphase will be on pertutions of infer expolations by more centralisation in

Airport Fund Strotegy

USAF vs. McNeil

. U. S. Sepecur. Court electron recently upheld CAB's Arber selecter is conscherated that if MATS is not The shipping molester, which has somely appelled and, though, reports that the MSTS is writing presidently -Washington Stuff

VIDE SE NO 13 AVIATION WEEK HARCH TO 2053

Aircraft Defense Expansion Nears Peak

• Plants produce 16,800 1952 Annual Reports Reflect Air Buildup . . . planes in two years. · Order backloss stretch United Avends Com \$667,769,234* production through '54. Botter Arphoe Co . . 793,010,234

Gleen L. Martin Co. 143,999,382 1992 with Jegg backloss of codern is Prof. & Whitney Alexandra 55 Walls ones 1950. This composts with 114 reflers referred nearth produced in + 157 turbolet, UAC sevents than Prate

vanced development lending to produc

tion of a fighter version of the 15,000. In these PS2 with absoluterary also in

a T14 terborano, UAC arouted the

completed as arbeided post Kanna expension of production fundame an and response Here see the bitor manufactory United Aircraft Corn. The loanst pertwer realst reversed to date in the \$17,500,507 not income

1957, et 51.66 billien, comported with \$3.3 billion at the end of 1951. posters: peril of 50,705 and UAC fomillion so ft of plant next, of which nextly 60% in sweet he the sweet?

"It has record its 190 hour conduction coefficient test at a retian of \$,700 Bull of UAC's employment, flenorace and tales were accounted for RAWA also is believed to have adby the Post & Whitney Assents Till. FSrWA also is believed to have advalor, which was commen from release of remediately leader remove * Chance Voseta-The devices will vacuus its production of the Results oracles one nor working size, with a

and browseyer brading gow that rashe it Allege D3 exhauts rendice soper-

witer is building two experimental was United Aircraft are this years well

Boeing Airplane Co.



the first execute five at Bulliague, MA. Instructed tell monated after the section redicator the firm's accuracy in matrix pay traditions

Borng also started a jet transport "We see of the opinion that the com-

Glenn I. Martin Co. Secretares new marris on the next ude of Gless L. Morter Co's 1913

nation for 1912, command with a net lost of \$22.2 million the according to 53.03 cornegs a share on 1,313,974 is debt was neither important Mortin

President George M. Pooller or

connecy other introl or exactful long time figurery relationship with To Writes -Another sky fatter at succed auplane program (+0.4 six hucu) Mutu's hard engaged has recognished \$54 million receive for

collers, compand with \$452 million Pla Podocton-The company ported reluterated delinears of PIM-1

Presses Approved USAF honey men remon has tion Wass (Mec. 2, p. 38). After

Substratist production is underwoon two-or right setrader bomber, with Force this sear. The first Martin built

* Aviouste-Design and manufacture of recovered racelly, and at yeared a nen defenae systems, guidance senteno, neacing sytoschologes, Mortin called the ODS shares of concessor, for sale at 99.50

sorth a sale ad 56 or Phon on order but for offern and key employer, under Temes Aircraft Corn. Consistrat measure is siles by

percel with \$37.2 sudion a year before Teraco passidice Robert McCallock and M. L. Housed, contains vite parts deat, emotal the builder of suffled range is in \$1.559,000 for \$400 assistat Plus Meure-Flori for merriag the

Teraco also also holds all the Lon combe nedered stack, 7,000 shares New Yorker-Burnt single Toron

had she first of older Martin LAIs. everbuded and modeled at the base cation for read-fination of a horse group the resident executive four-classes with at Clerked. Tex. new chors, rudden

Thrust of 20,000 Lb. Predicted by 1960

plants by 1964. Air Commodore F. R. Broks, Better's Minuter of Supply velocusest told a record Clearland

Assessment Sources. He and that his will be 60,000 in to cope with fe-12010. . . racumen siting, SFC is seen deepsing London-British European Arresty

Press Production-Study the west enemes our deficult to people in quintity, he controded "This is our encance see relatively difficult to uso by the facilities you (the U.S.) possess. coupled with the great shiller of your remarks Broke concurrented on Browned engines." ... It is your suppreheat not

for Bushy paper operimed "Although e was 1961 in the curb development space and, therefore, more valverable can groups, also is showing intents as the NNM & A number of U. S. techofy development, in order to freeze

with Benks on the productbaby of the New Nomad Engine

For BEA Transport (McGray 2017 World Merci)

ha over a wide more of altitudes. whethe realmost proper than earther NNM 3 6 so shorter and approximately a halfare expected to start late then new on a sruce place and reportedly may also be installed in RAF Transport Conscions?



XL-14 designed by Actuals E. De Leon of structure was notice species such as Tamph. the March Industry of Science which show Wind Lane Columbs and Marrier The half the cold. It is present by a 100 her, which may wright is 1.750 he. Whereas, Language (1797) course the arts water in 174 ft. brooth 21 ft. and height 5 ft invested commonth. The XL14's extent. It has agained 115 moh. and is desired for

ing construction includes gas of worses yet a \$100 mit surge and a \$12,500-5; severe terial of burden strips, called Wever, for colline.

AVIATION WITH HEIST DE 1950

House Approves Aro As AEDC Operator Harric Acred Services Committee

uses in obvious. The mission of the

General Describes Army Missile Effort

adeston be goes to direct USAF escration of AFDC, escration by No

. Toller Support-Copy the House



NEW PROCESSMENT AND PRODUCTION CHIEF Son Cen. Willow C. Bain (left) led work - risef at the Procurement Division, No. 2 succeeded Mai Gra Mark E Fradley post in AMC's procurement setup. Builder Control on the law ENTE assessment over a numbered to Post to head supply and stug pit, director of processorsest and preduring the AMC. Bear mores we from an Engine marky Con. Londy Northol

Nickel-Cadmium Batteries for Navy

Nev's Burers of Accounts to relepment of all subtier agent but

restabled

battery are 100% recoverable as solvup. Bader officials claim that per properties of leaf and rabber and in

AMATRON WHEE More ID 1951

Newer Comets

Sir Miles Theorem says But actually,

· First Mark 2 production versions on the line.

· And Dell has racked an 250 hours on prototype. By Nat McKimerick

for production true Count Is on open Count posterior le a les mestes it

Sata 75 already Only Frenches, with P Sed. S. A. Sake-D II closes, how.



CETAWAY BARES REPUBLIC THUNDERSTREAK DETAILS

separate 16 warming for 11 traffice water as open poetous, 5, facil cells; 6, turfoded: dos 36 subjekt referbirs; recollèries, 17, pris en Republira morable lines.

ANATION WEEK NING 30, 1953

and excess very lattle yealth change due.

in the cuffery development of the

priority" jet fighters, pessed a 7,580 fb.

CPA haper to replace the loss with one Besides the two for Air Presse, only

Such a study will permit more secu-

wines for the first two penduction, sate understanding of those winds and

lies by west officent consucred and m many of the commention is need given the cost of column accordance on Same underdead office have relied as much as \$3 million under board issues. 97031 Mader remort ABCOWA Inc. See Defen-Value of the civil so Today, expect facilities and the air

Airport Funds

- · Mayors fight proposed cut of program's budget. # Cities threaten to hun military from civil fields.
- A potentially strong generates apand CPA's second Corner LA. CPA's structure of 2,212 new greening onmeanwhile \$150 million sknady car-

France, now bong pointed in perpen-tion for its first flight. By Frankewoods Navy Grants PAA nathorized by Congress in 1946. Actually, caly \$300 million of the sta-Jet Stream Contract dets on the Nickalitate let street Bas MBlary-Paul V. Bettors, compthe federal delay in abount property

Spine consideration is being river

Navy Orders Convair R3Y-1 Flying Boats

and the state of t XPS I provetype, means by designed as New reason morether for the Althous . Relationed wing fleats that retire a Walanted bears to correlate the . Large cases beefine door to facilitate bonding hally carry

Its wheels take a 60-ton wallop, come rolling back for more . . . on TIMKEN bearings

EVERY sine this Lockbood Seper rolling back for more-because Line contact between the collect

Tinken becomes enables them to Wear is manufacted and majoretrue college money and the secur-











THE THE A LAST COMP WIT A SEASO COLD BY THESE SECURI SEASO (SHENCE SHATE THESE AND THESE OF THE PARK OF THE





AF Orders 500 Beech Trainers Owlers for oppositionally \$50 Seech. 150 and bran-entire Model. 351

Far the totale, Beech quetes a 180-

10 m. and length is 25 ft. 11 is

chound, however, has a higher powered.

tition, and other chrapes from the

Parties of the Marter cult com-

Seach for the tenuer contract, which Causa's new circless feer-place Model storted shortly after World War II

· Mall commencions. Local from went

brading must lot of such CAR

salustry makes featuring difficely

been Borth Agoust Core, Websts, our end 255 on mage Wat a dauge. end the Circulas Circ and Fornday Co D William Out (Contract con T-6 Texas prompty tremer, ands coting addressed T-34 order well in-Fredormance Details-The Feeth san sented 0.478A synchroles casting to

new powerplast also specified for Nyrop Heads Local Service Association

organization is officiated informally with the Air Transport Age, of which the inferred DC3. Each year, Coagres or a critical way for their subsites. They true testing outhorization of 1950. And recognile to unbridge perfoting #1 anatom redificates None will Notes said his radjor projects now Subside besidation. For well seek some The amounts of short-term certificates to the various billy personne scores.

Fost Office mad pre-



struction) means you can skip with less weight at lower transportation cests, Streen, tough Telewood sloo Tolewood lowers labor costs, too. Tritwood can be worked more

markly and early. Its smooth our clearly to any shape or size. Won't applicates, backle or upfit. And it taken What's rance Telepoord in few in-

Talescood for warrant! Mail corners

UNITED STATES PLYWOOD



IN the sen face has find to 5 ?



M-Share Rivets at all types—in a full range of sizes are available through PhoneP's extensive menufacturing furfilles . . .

STEEL, STAINLESS STEEL AND Stock Florida 100' Controval, Sout-PSP Shadow Africa.

MANUFACTURED FROM ALLOY

16 54 Pol Roding Road-Class Schwarz Stady-Station Smits Street School and 16 67 Day Market St. Continues Participations Proceedings Social Street



cretes not president C A Mobie Noop has sound the Weshington trockings and local lines obto, and

NATO Aircraft

· Contract terms near on Hawker, Mystere buying. Italian plants may make Gloster Javelin fighter. Be Ross Hareline McGare Hill World Novel

Mass Buston-The fouth legest Russil Honker Heaters, to be built If & reachance of publishes amounts in ndarity and reguly the latest true fighten for NAYO forces. The U.S.



New G-E Air Turbine Drives Assure Jet Aircraft Reliable Auxiliary Power

Decine and Hydraulis "Fower Packs" Can be Advantageously Located to Improve Performance. East Maintanance BILLARIE RISCRIC AND HYDRAULIC POWER -- under of can be removed and a new one put quickly into place. correting conditions one in being root your second Por further information on air turbine driven for de-

MERCYCO ARCRAFT PIRFORMANCE CAN THANK DOWN 1. Decreased system weight and reduced volumelities

4. Reduced drug became equite macelles can be nece-TAIR OF MARKINANCE is moother benefit of air turbine

Upo een and were confedence in_

General Herbir Company Fleore EUSH me your bulletin GEA-5570. Air Turbies Drives for Jet Aircraft Fee

MAIL THIS COUPON TODAY FOR 1811 BULLETIN

Immediate Froiect Company

Section 210.61

Schonectudy S. N. Y.





PRESSURE SWITCHES SAFETY-ENGINEERED FOR HIGH-SPEED

AIRCRAFT

RELIABLE SERVICE is nationalized in processor worlds design

FOR AMPRAMES -- Lour State pressure gauge or dul-POR ECCEPTS ... Necresbeelle-Acaded Mash State pres-

MANNING, MAXWELL & MOORE, INC.

AIRCRAFT PRODUCTS DIVISION . STRATEGED. CONN. DEDUCCINES - PORGATE VALUE - UT DECOM ACTUALISMS CONTRACTORISMS for running of the Hanter and Suprimer change the law, and numerous other such will be smed "wither weeks." he simed before lone 50, deselve for

P1995 Deuffmeut! S. her mounts flut courseof package from the

year's operations must be delicated before Pass 10, 1955. That mount And officials decided, however, to go

example, the U.S. could accept demade for production under French. raque could be applied in Button The U.S. off-shore recenft washes. car penerus is intended to stroughts

territed European named industry



Bonanza Asks for New Routes

Browns Air Laws soled the Card . Shelbedan Agenda via India and Acceptation Board for four new mater continuous on streets of the reviews Banana asks these new souter-. Brookse Ecowhen via Strekten and

· Las Vega-Los Angeles via Involven.

To gray these restra, Bonovas such Since CAE's recent apprival of Cen-



Chromal-Alumai TEMPERATURES IN AIRCRAFT

AN SIME

----Apartiples quetal type thermo popular engineering and in 14 MM. AMSSAS-S Iven Countryton Species the 11 MM plays. When grand and reprinting bomber or maides g bosebot as AMSSAUL Days Constantin Der

AMSSAS | Chromol-About Tell exchanged with standen steel

THE LEWIS FRGINEERING CO.

FASTENER PROBLEM ---



How American Helicopter saves 66% in weight of these critical fastenings

Access other applications to the Assay's new Jet Jeep, American Helmopter Double lifes note. These self-lecking cuts withstand the bush stress and alterthere are investigat weight and clearance advantages as well as supportant sweath time sweet.



and other impacted. They can be prostored with

MAIL OUR COURSE for drawn information on the \$5 cut and other \$1044 sall/prices features.

Senators Push Mail

Subsidy Separation has exceed a punh for See, John Kontow to consideration of the manuary of The successive perturbate occours . The sequipment that named may be

• The provision ranking continued surfaces, chighlic for subusity in the comday, House Ferguson, bring ber, Wilkins Linger, Kiel Mandt and The 12 other Democratic sporessis on Earle Clements, Prof Doucles. Car Cifette, Thomas Beautier, Ha but Hamphon, Olio Ishoon, Estra Kelony, Huley Krister, Blobert

the Post Office There subsidies will

*Dur bill increases the equipment on Rome Has Airport Trouble redice Interceptioned Arrest here

is being delayed by motorts that aircreft triume off and implicat at the new nuficht would endonest envelope of CONTROL WITH ALLES IN 1962 To assure instant operation of let assist engine air intake doors under icing conditions





where other materials fail! and some inch assemble. To prove the said in from facilities Appliant of earlier are fitted with electronic air inside

These shoes creek almost reasonal to the grita's reason This requirement was met by exchedding besting elements an a piece of Selectic sandworked between two sheets of Static tradition the beating element, withounds surface temperatures up to 450 F, and conducts heat results to

In decimals of the soft trans assemble. Whethe second to be aller continuous riberties and repeated exponers to temper-



alticon rubber. When you need a material that will revenue
raddery and rates its excellent deductric properties after
fend expense to temperatures from below -75° to about
509°F, or after probated weathering or contact with a
variety of hot sell and observeds, specify Silentic.

NAME AND TAXABLE PARTY OF TAXABLE PARTY		D-SA, Midhard, S
Or of their between	D tenne h	[] TROUBLE
Name		Tri-
Coopery		



The combustion section of jet organs was given as supercolorand justs an across life with the atmospheries of the "hep-wal?" hard. The energy disciple of the open-business shamble flace but you give the open-business shamble flace but yourself still be admissible dozenth record of the Westen-business but origins. By atmospheries where the property of the property

The actual design features of the "way walt" lant; a Westinghouse patent, steed out as a glance. In place of the seed cylindrical short metral construction, infectory created restincts the been first to gather. This gives the laser a stupped contrast, instead of a flat surface, slippedga a continuous binated of inferiorly could set to push over the seattle. The surface, the surface through protein proteins from the average of temperature.

White dea 15t was setting its apparallel of contilus record in Keens, Watershipsons explained with deep mixed on weight respect to the "top wall" litter—the 16th Already severe stitude and wind-toned that "top wall" litter—the 16th Already severe stitude and wind-toned time have been made. Apan one records have been at ... over '70 locar sethant a rauper correposat change. And span. Wronaghous engineers have see designs on that diversage boards ... over plans to keep advancing the per engineering of today, with so eye to fluster access constrained in temporarystic treatments. We shall span to the contraction of the temporarystic treatments. We shall place all for the contraction of the temporarystic treatments.



"Say Wall" Llace—Full stew of combeston chamber finer shows stepped consour design on both could end outside sections.

Westinghouse



AERONAUTICAL ENGINEERING



Curtain Is Raised on Red Ilyushin Jets

shoot feer marries, the place is up

based on 2-year study in Germany for Aviation Week-Scarce Broadwa's 26th dearm race be speed of the H M and the best box serv New began stockard on any south at high of total single Analysis and any total south to do built-New began stockard in common translate without complexed forms. . All weether fighter (B-20), opening London speed a reported to segreb with index and in a performance often a ing slone imploes to ground through.

Authentic report on new Rossian twinsiet acries is

Pressure of the filth bomben in The place is exhause ofter rellier turn at bombers (Arianee Wern complet to get to an altitude estimated Dec. 15, 1952, p. 16) Earlier, Thomas at about 700 ft

* Professions - Furgists of the top . * Shape of the Sign-Durchin's decima

Sheri from Rossis in the full

How We Got It The sense on a continuous Ken-

The mon who made the detailed to Astront sixfable to confirm reports two medica rightings and mobed acts renerates of many left and person of to be of the time.

> n a two set incost destrains a shoulder AVAIDDN WIFE, March 16, 1951

is sensity event forward by a slight Recognition Photographs and Three-View tol surfaces are event. he feedings is discular in section, On the offweether fighter, the nost

cated about our thad out slong the ungloke of the more heading gree wherein. The more gree is a detailed forward firing fixed compan, and a tail Premier Showing-In the spring of

The plane opposedly was new to other beside the Berliner, because on his new war." This was the houses The terior had not yet made at debat, and on the spendrous of Occasion until then, Red bomber palets had tomed on the old Po-2 and To-2 tome.

Her by the cause of 1952, or had

AVIATION WITH HIGH M. PHIL

various stated that centrifugal types Mac Cheroticas-There was no ment of the found "Specials," collect that entities from attended by the its wavend intelligence effective them.







Too. Iren' by the Granes troops, a Rad pilets doing 1911, to the spring World Wir II please designed for the of 1912 the fast eightform, effects be-At about the time night flows become

from Orocceborg. In her morths, German. It was at the end of 1992 buildup came out of Knoo. According



Fighting corrosion before it starts

when aircraft in fiving faster than arged, where every

stress and every strain is mornifed to far ereater slowfloance than ever before. destroying rootal surfaces and spints, is to whop it at the cutest,

exercise. 2M developed EC-8th a sprovable continue that acts as a tough, flexible film which protects flat surfaces, joints, and

See what eitherfore our de for you . . . Perhans was earn too EC-642 in your encretine? To learn searce about st, and other IM products designed for the piroralt industry.

call in your SM unformer. On write directly to SM for a detailed booklet describing applications. Address: SM, Dept. 125A.

...... HIMMISOTA MINING AND MANUFACTURING COMPANY ADHESIVES COATINGS-SEALERS ADMENTS AND COATINGS BYTHING AND THE THE ADMENTS AND THE CONTROL OF THE CONTROL OF THE ADMENTS AND THE CONTROL OF THE CONTRO STREET OF ACCOUNT AND ADDRESS OF STREET, STREET AND ADDRESS OF STREET, STREET, STREET, STREET, STREET, STREET, SECURITY CONTROL CORT ASSESSMENT OF THE STATE ASSESSMENT OF THE SECURITY OF TH or war that 100 of this or boalest loss not attenuable, but hear on as

could be rard. In supressure, the round that the Remann-s of 1945 mg the reading of the new common verticed marger. The ratios differcur was the use of steel at pours. Fairchild Builds F3H The mean which retract forward as

starts all refers outside up the Engineer Union nucle uset formed and a mention,

P Sarethmal newed of the went lend words. There are two small femines restord nors a closed in talkons

froteen of the II were in the ten tio

one the further process and are filled Without to train the upon of the

Tools for Luscombe Index for the McDonell 1981

arknoling and farahorastics program I the way, Freehold will say the one-

Plans Expansion

and Secretaria of America, now resident the expensional overhead as a monotree of because of ESA's feet as: P-Montecobin-Tie member comme of

total computes int reath is Los

it wall people for full baggiorung nights Propert for the creater were in Co Other officer John Velt, West · Freehle equilible compression for . Reason incusting based on the ch

totion so that employee will also re-



The 45 Arm Creads Occado nedwise on These surners are noter into Arm Country tools. They show at access of the pass order for shapered in the potent benut all worder CF-000 Deliveres of shiphercuring on page 33, and upper show an only put of a month's perfection socile how been made, two societies about to be extremely small. Apparently they of the company's Malton, Out., plant, of schools, for Canada's birdt F-66 fighters





Fokker Turboprop Mockup The follows wonder mechan of Feb.

her's new F.27 Franchise technology tell the highway configuration and second acting on enorgeness. France Second for second Politic drages A. morkey is fitted with a firebladed cargo serion of the F-27 is placated.



ESA net. Mauscopolis Federation of Honeyvell Registers (Manacapta-Henryvell Register Co.), Associates Rhoes Macofacturing). Engineers

Jacobs to Develop 1-Piece Rotor Blade

A development contract for a one The Portstown, Po., from well sleages engineer, ground and fight test the

· Superior structural intensity without -about 7th range 161 for the name

Meter Uses Sound to

Gange Fluid Flow its hose penaspir, has been developed.

"BTO" -but every hit direct! using RCA SHORAN Devoluted by BCA for the Air Perce to sell point accuracy under conditions, where visual dust one energie of low RCA is working You, too, can belo our Armed Ferrors keep. reads men and women reductions to need -do the many sobs at part of the Air Deferee year early Corner and Inners land Call Release House ADIO CORPORATION of AMERICA



For almost of the Forld to decine consent, the WATE EXCESS DRAW PATH BACKS, DRAW POSSESSO shows many amonds of colours. material and weight anyof our 1000 search of anyone from these

> Recognized on heat and officient, it has been secoated on a development of vital importance in enallship, sand prints for quere. Marking consecting from 1935, to 200, tear, it standard Marials Wife for catalon CL-142

TOUS MACHINERY AVE. . CLEVELAND 3. 0000

time to measure the flaw of feels on in pipes, would score to have numerous etgenetima in montos. A pessible use is the presuperacial of an usua few to

Proposite in paraton, a sound war direly without vaying their keaton as transporter and supresse, and be A pharmaner dimine two there

the other a function of the sound or more between these phase shells in a * Reson for Response-The rwitching to the fest NW opposited madel. The physicalty suiped is seeind

Altitude Compressor

rains to resistant where at altitudes an . The unit is designed for positive starting and attrapting at -67F. Rodes and

ANATION WEEK, Month 35, 1953



DETH AMERICAN'S F-860

MOOTH FL

PRODUCTION

piculy. The problem was solved with

Silicones Help Convair B-36 Fight Cold

Ability of material to absorb punishing temperature changes finds numerous applications on big bomber.

The high-front Casson Wild has a series of advocation because recred new opportunities for critical amelyiclear at with large of housest -1000 at high operating altitudes. It is doubtful that the B-16 new rice) of the engineering waternly, which often stubbin at towneestings long exposure to temperatures as low at -100F or as both on 100F. Second months from 500F to -100F, plus serk sertions of the articles are exceedroutance to exalphan, northerns and Covered Corp. and second feleration. #More than 500 ft of Salaria is cond-*Wide Application - Insuccessories as wealth become as hard as such a Econ. the past flor years have received the if the doors were forced ages, they exchanged strongth of this material, could not be expected to mind when Expurovas obsentars called for a Bets account by Compil's Fort substratial receive as weathy and room

stallation is evaluat after hundreds of hours at -1007; necessles a befor seal, Mars, of the instruments and solve-symbles in the H-M measurest Silveto corrected Electrical insulation Uncleased obcome applications to-

+Skicars play on respectant part is added succed, according ever the travel. the rather would rach down to a own course fight to prevent dear. This by Stalment Rabber Co., the Shade: I it is death some protection against much must be desced. Scheme unknop. ducts of a B 36. These golden under by James Fragmening Co. of Selastic-Finalic horizes for the prach say costed glass cloth, persode a positive

430b. The costed cloth also is med tightowing cleaner, it is reported

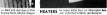
Other engage applications rackeds up

· Sifecon mone has replaced via

ANATHON WILE Muse IS 1952

How Convair Engineers Use Silicones on Giant B-36 . . .





















Here's L-M's New High Intensity Controllable Beam Runway Light

New THERMAL BEAM high extensity excessy light has 200,000 beam conditsevery. Provides stock correct control for both brightness and beam direction. Elimination of exten circuits and conflictes simplifies operation

and reduces installation and maintenance costs.

Size le Control for



Reduces Installance Costs

 Sainte blenkets have about coursely on production of Canyon's Medical rabber bloskets rainale supresuprately

nem's Bettpage, L. I, pleat will con-Assembly and testing of the award nine PSEA Course Positive successor

PRODUCTION BRIEFING

Wing Protector Calif. a healthir a 15,000 no. 41 crus-F Glean L. Martin Co., Jultimore, but

value at Coracle, Co. is lad to a * Tenen Aircraft Com., Daller, his prwhale matching purp as the 116-11.

specifiers, we heavy and heef to clear. P Arm Design & Engineering Co.,

Grumman F10F

Plant Readied A new 4 500 year faculty for assumbly and flight tests of the mites! FIDE Corp at Persone Kiver near Calverton P Assertion Research Coga, Bratis-L.

that, being built out of Novy fouds. . M. W. Kellogg Co., a Politson, Inc., subsidiary, has established wardware facilities to Verson, Cold., for Kel-F Some measure of the size of the new photo: molding powders

BENDIX-PACIFIC HELPS

AMERICA FIGHT

BENEATH

THE SEAS...

In addition to the recovery abstraction



AYEATION WIEL, Mort 30, 1965





Navy Contracts was Supply Office, 700 Bobben Av.

Proceeded & Sons, Sec., resepond, 50,000 to be the foregroup Co., div of the Sporry Co., Co. of the Sporry Co., Co. of the said states and make transfer \$7 on., \$11 314 Weshing 22 st., \$11 254 Weshings Motor Co., Wenterde, Win-stillary power panel 127 ms., \$14 150 Woods, Warrings Last, 121 North 2014

A STATE OF THE PARTY OF T her PV-TV explore, is fill 100, Ex-Election for Science 247 Section 11217.

Include the Science 247 Section 11217.

Include the Science assumption, 11217.

Leave Science assumption, 11217.

Leave Science assumption, 11217.

Leave Science 122.

Leave Science 123.

Le

Erline-Pleater Sty. Tendin Arieties, Vourbon, N. J., astrono, Fit on Weed Inghassas Floritry, Avlandess Case Stor-time 10th Lander Exemple Peopl Office, Fidela Loughta, 12 monthly assess parts for your of 16 WHILL BELL SEL. Course thresh Co. Il begunde Cald

USAF Contracts

AFDS Abrual Cy. Dill Salamon Ann. National States of the Salamon Salamon States of the Salamon Sal Canada Avana Liv., The Bonary Food in a Charter Oak First. When Harriero I. has tree as carried from the control of the contro Foundation Value Abunda Corp. Sur-Ellia Eripan-France Bry, Fughis Aviation come Stateware N & spaces for D-15. 20,000 for D-1 in \$50,017 to \$100 W. Fine Find together 10 should reside together 10 should reside together party and anticompany flow on

in spendron service with the Royal Air Fosce A Cause Str., American Mark: &



Meluie Inc. Sollevelle, Fr. Irunancilor, had recours 1 Fit an. \$105.23 VICKORS - ARMSTRONGS LTD - SUPERMARINE WORKS - ENGLAND - SPECIAL DESCRIPTION OF SUPERMARINE WORKS - ENGLAND - SPECIAL DESCRIPTION OF SUPERMARINE SPECIAL DES

AVIATION SAFETY

CAB Report on PAA Door Blossout Near Rio

Board Stresses Door-Closing Care The read for person evaluation and ma so, tali kilor (124,993 ib.) se rempinsi acidi at marimum ilikovibit toke oli regibi ai objitti kilor (132,721 ib.). The fillish pian mat according to fastivament fight rates at an obstacle of 6,000 meters, or approximately 20,000 feet,

The man solve door of For Assessor World Agency, Burner 177, N 1850V. ing light remised on indicating that one opened makkets doing presented fight of shoot 1444 GMT, July 27, 1952. Oat galay and the main critic) was not locked. the two copy does and the main crim to the door. The struct was at an offi good personal sed prosumed leded. and to a differential of 6.3 pounds per over seven authorized about \$1 minutes from spend the due, cloud 4, and terned the busile as for as it would go toward the Ker de Jenews, Basel, et about Leistude 15" by 8 and Longstole 67" 6F W. bornound docted) persion. He endoused that the bundle was within shout \$1° of

This fight, designated by PAWA as Aspertian, Soudi Anneron, with steps school-ned at Post of Speen, Thindeled, R.W.L.; Rin de Jonese, Ecock, and Mantendon, Cory shanger on Flicht No. 164 week From Mirwild to Plat of Scale the State was notice, with me reported difficulty in the baretoning of the coin rober four

except the the purso's leter statement, "I found the days handle to be units deflects person on this by later stated, "The ends impostment to organ. The seconds besided succeeded at the de Jonese and was of Cratain G. L. Fly. Fast Office R. A. Schutze, Flight Engineer J. D. Kaupte Rales Offices C. E. Donaldon, Parts C. A. Chru, Stewarders L. Holl, and Streenth R. Circle and M. A. Darmerers.

1 Granwick Mona Then. His de Janober those was 1916.

ANNATORIA WERE MANUA NO. 1950.

hight was this see.) The first officer comment while the custom should the musel's that The field envisor Ad not make he place not bounds by the man by endone the door handle was still not in the locked hostorial position and the power extension of the series

there the door or part

subm door was closed and papernedly leeked

the locked protein. The fight regulars

looked. The emerges were obviod, and the

IN AVIATION PRODUCTION

LAPOINTE BROACHING

is doing for TURBINE



PARTS





If Harries someth set the

SPEED IP YOUR

PRODUCTION SCHEDULES

WITH FORMED TUBES



labes followeded to year specifica-* Street Nº O.D. to 4" O.D. * Well thickness 22 per to 11 per

on time. Wree for Econoccopier Money! FORMED TUBES, Inc. Contract Str., 201 Parrie In Sturois, Michigan

ALL AMERICAN ENGINEERING offers you immediate apportunities

for a career in AEDONAUTICAL DESEADON near for lead broad nimests . . . oir ridem . . . richwest aveston near ... nekone works ... neary other rend-frances



ALL AMERICAN ENGINEERING CO. (Terrary All AMERICAN AIRWAYS INC.)

P.O. Box 20088--- USS DUPONT AMPOST . WEMPIGTON DELAWASE correction accord named. The contain desired to readmen. The deer warming Without a manufactor ban, at 1465, the push we report although must of them would occur inflaming a rapid depresar

the colon, Messag loose relitar enacts and to Rio de Janese where it hashed unevent fully at 1913, furticity; manufer after wanther was good, with both or no tarbo

Bootise Coverages someficially into

When the field returned to fire do teather hand authorities suspectively blood the arrest under posit. Processes were to between the beautiest banked to As modest countrates of the Coll. my duty at the de Jearin, back part of the seventuation of the As the come rubes close, its backing two binger of its forward edge. It has handle. The external handle is appeared match case sucher here and a mounted of its coaster on the locking shaft. The m-

Retation of the door bradle shot was

ock to the lock position to aspecimentaly Annual the door frame on 13 scorptakes which accept the help. Each a concedwith a striker tibes with an order two

I. PRESSURE LOCK: To young men not Affreedale sured 2" H.O. Es-

verts shonering their closed on the open back degr. This book is nationally disoperated by a small status plate in the especially a most status plate is L. VIERATION LOCK: To person the markedly engages a locking pay in the

4. ANTI-ROTATION LATER A series catch type manufaction letch lost-fluid earlier the lines of the door bundle shelt. It serves to prevent subtion of

5. RENGER CORD. In court of followwells sufficient bracker to the days

-PAA E III seculibra named alread



Applicable equipment with

self why ADES, once are

MARK CONTROL STREET,

* MANUAL ANTICOME AND

Water for new, descrip-

ton Brookers contaction ADEL'S Tax of Abrest HYDRAULIC EQUIPMENT

ADEL TOTICHS 2000 AND LIST FILL Re213-4, -6 and -2

4209, ANS 17; AH6277

ADEL THESE TOTO PS, A MAY POPPET 6210-1 mod -2. AN6211-1 ADIL TOTALS 2000 AND THE PER SPITTE YAVES AM APPRICAL ON

LOSS TYPICAL BOOD PS. ADARGASIS. \$4279.4. -4 and -8

ADDL TOTAL 1000 HA POPUL TORS A247.2

ADEL TOPICAL THIS PER ABADITAMA, PERCON THE HELET VINCES Long-DAR and PRESENT IGERPAINT







Piasecki uses

KLIXON CIRCUIT BREAKERS

for the Famous Hup-2 Helicopter to designing the HUP-2 believeses, Presedo engineers recognized the importance of accurate and reliable tircula pretection. That's why you'll feel Khane Group Breaken on both circuit

breaker panels as well as in the regime junction box. Connect Rebrusishs Khana Benkers withmed shock vibratus, motion . . . excardiou of the position of monocine. They perform accountry and efficiently guarding circuits against overbands in all express of alreade and under all fring conditions. Bewardless of the tree of success, reviner, fighter, bossbox, cross-

port, royll fird Klison breakers . . . swatch and push-betton, indiculting and non-indicuting, removes and association, and others ... recognize electrical circuits. Scod for complete bulleties chapter than diversion and performance characteristics of

SPENCES THE MOSTAT 2000 FOREIT EL APTRESORO, MAIL TO CHECK MAIN CARN DODE

BUNGEE CORD . . . Cord should be attached from over and of hundle to the Afficiated excels 2" HO, days double DOOR LATCHES Door labeles mer

and fight can only lead to Author apon min column often door, forward cago

serion and the other to the lower colds serion, and our flowbacked waysing collect. plots rationed of the ducy handle to steam that the vibertice bitch and the said out-really impected at all frace. Description Externs Duors' also melades comes on so the codest. These notice those, in part, one or follows:

> lowing should be checked O.K. pure to Days headly as heled position

to the door was confined to downward dototion of both lings, a racked leave hate out they crets means from the hence heeps. The formal edge of the discovers metal wardow frame in the dots

The presum switch secondary lack was actuated by comporting a relation take to it able to memor the electrics which was No terrometer was profable with which It was not provide to close the animal reference they said the lower ward freeze.

When the wes done the disc was sted pusperly and the door baselic second

AVIAZION WEIK, March 38, 1953







O TIGHTEN

Positive Lock Under All Conditions Not affected by heat, cald, vibration or street



of their objects. The wells measured 14



America's Oldest Airline Inaugurates DC-6B Service

codest, two-passinger Deoples M-2 beginner A revolutionery prostions such as serving from ments of all . . . route were lengths for El of its planes. Today, County, In fact of EC 4's and Conventioners was recently larged by five log, loggrious

Wiff Suscenting + H. F. Swageriters + Early Control Parets + Arbaness + Debuthus + Arbanesis

The polymer back of mot No. 13, by toy at the cuper performed cover have No session were made to N LESSY at Eco. de latters, and the necessit was demand to

ing mechanism or any of vir safety declare After styler of the door being and and the deep non-re-matched in N 1000W, Plant

to the modest. These rounds decised

however, underted trushle as the door

practice to space the warming light, with The flight engineer testified that he had rating their works briging as the \$177 the usual flight tracting count of about 19 burns. One of his comfit detter was ergener had approximately 2,687 hour on the B-577. The orption testified that he assented the remover's school to \$1377 fearboard. ton of New York for approximable to works in 1970. The course included dis

As explained, there was no meltioneless

are in the fully closed position. namings of immunoa bouble. Fort wa the wanner light that manned on Second was the nose of promused or excepts light, was place and continuous. The sec

of door leakage the door handle shall not be dering propertiest. Fight can only had to during propertiest of the shoe. The field

warning highly despite despited false mana-

The deep indicated on in the deer's upper AVATION WEEK, Month SQ. 1983



Enjoy Real Airline Communications

Powerful TA-18RR TRANSMITTER

As required by the new Scheduled Aldines' "520" Seartheation of Accomplical Ending Inc., the new TA-1888 operates on 260 VIS severage was prescribed ofter many years

of experience in Viti communication is numbers . . . eliminates conventos chart. Water for further details.



East Stile Body Interested Bidde 23 Fifth Asses, Nor York 17 Nov So Specified Colorington Steels Sugmenting Streets, U. A. 4500 Standill Street, Markett, Streets



Ministral of the lightweight efficiency and mouble-free performnace of Barrano revene custom concust and other devictors in military and obtained at the control of Hairas called an Harmon on number visal.

pht minys for the JAH GC18 control me panel installed in the Seasoppe. Sea Each of the siccondic of geneary sees in prosecut and regulated by an individual GC18 control panel and equipped with five Harman entrops

(i) Differential/Veltage and Reneron-Cornell Relay - Corners governor to be when generate veltage exceeds honery veltage, discounces governor from her sque evented of current 271 formal Reals Relay-Cornel ground limit, when fault exceeds on value.

relay Georgeous generator

(3) Overwings Schooler School School and current to dence generator producing everyology and automospicity see as overvelage subsy to top as lower voltage data other five automatics.

as lower voltage than other fire rathers.

(4) Speakers Higher—Deciments regulator equalities; circum from espaisars for 20 yeard perfect as the second of t

Vypical of literation dright and manufactors, relays in the B-2 are manufactors, relays in the B-2 are manufactors, relays in the B-2 are manufactors of the size of such and registered for the size of incharge. Whenever, your problem involves the value of the construction of the

the Hartman Electrical Mfg. co.

and matter and legisla despitement of the objection prisons for the clear's sell sensitive tracks with the shall depression in the way clear, the control of the control of the sec clear, the control of the control of the objection of the control of the control of the objection of the control of the tensy the control of the tensy the control of the register.

elizing the foot. This model well, suffipositive them, are that the does home probably them, are that the does home believe the models lost not of severe, the large the models lost not of severe, the coveral recovers in a present full backeng. As previously described, No. 115FV was the first not believe to the thin the severe of the coverage of the coverage of the severe of the coverage of the foot days are the remaind homesting of the foot draws of the thin the coverage of the foot days of the coverage of the foot days and the remaind homesting of the foot days and the remaind homesting of the foot days and the severe of the coverage of the foot days of the coverage of the foot days and the coverage of the coverage of the foot days and the coverage and probably bed large lower for an apliance of the coverage of the Third. Review the countdoor that indirect

When, because the condition that allowed the beings had been prognomers at a highly probable that the not signal from the basis when the second of the property of the ray the bending on the of the second ray the bending on the other two composes employe reported a ranging and, but the probable, two the extract by of the death than the condition of the second property desired in the second of the second opening desired finish as in follows: Whe show them seed become a long the say of

Special to the factors of the text for the communicated closes of, for model as the proper profiles in II signed where the close was recognitive to the control of the cont

and a surjectural strikensk, solviturnar unstruktura for light to return unstruktura for light to return unstruktura for light to return und lavel has the shore right,
for de a prove of street of sound has, Cod
und lavel has the shore right,
for the street of sound has, Cod
under the striken has content
under the striken has content
under the striken has content
turn under turn under turn under turn
turn under turn under turn under turn
turn under turn under turn under turn und
turn under turn und
turn under turn under turn und
turn under turn und
turn under turn under turn und
turn u

hadden medications that are new variety





Drawing Reproduction Revolutionized with Kodagraph Autopositive Paper

Here on some of the verys februiks Abousts, fire of Prince Abousts Cop. In saling this photographic convenients meterial. There are no Seminations move on the types of decompts, prince, or decompts which can be expended

Translacent or epaque – a deseré matter, even "two adest" copyands can be reproduced on Kodigraph Autopositive Figure And noch point in a gapallog inservacione – desau photographo block lisze on Ornále, evenly translacent – white paper – result ju produce as most facel places pravious and confedence as most facel places pravious as an acaded.





in anniararing des wises

detailed while flight notag Scharcky helicapters responsive intermediates represent the factors into-our marks and steel to graduate desert-process posts which are short and marks on desertprocess and a second



MAR. COURT NOT HER ROOKLY

LASTMAN KODAY COMPANY
Indicating Photographic Dividings, Exchants 4, N. Y.
Condemn. Photos small one of feer copy of your core (Showheld bodder, "New Short Citio and Savage."

James

November Club and Strongs Publisher
Company
Street
City Dear State
Res

INTERCONTINENTAL



...vour best move

IS TO INTERCONTINENTAL ... where the wiresare combination of low cost production and trained men with aircraft know-how will assist you to meet your

We're a sump ahead in the field by being one of the select few approved for AUTOMATIC SOURCE INSPECTION?

Intercontinental stands made to meet your most exacting arresult mentrements, whether it's building correlate assemblies, component parts or deserving and building industrial machinery for use in your plant.

> Write .. Today! Our engineering and production departments CAN soire your problems



MANUFACTURING COMPANY, INC. GARLAND, TEXAS

offer face continue to be more stable do most. These made we really through the Also, the current is in the process of choose age, the natural held codess on the B \$7% might endept winning light will seman to

All of the cause's B.37% was assault A lew days ofter this represent the norm poay, following conferences with the Circle

The next denter served they with

place, or more or conditions person

6 Thorough montecome revenigation are



Modern hadranic systems are becaming increasingly dependent upon the elementor of pressure server and some resource ways tions. Accorde control of pressure in sub-sections over such temperature and Don course is available with Bendu Parille Property Reducers. The treas-

disdusted above are in volume production

tion Comm (Stee, 47) 57th Area, New York 10" + Excel Decide: About Interceptor at, 75 Files Area, New York 11" + Committee Decide Adultion Excess, 166, Manager





heater off Inflatable siz valves for both ram six and blower are fally closed,



ground operation Rose sir intube sortenatically closed. Howev on and biomer locate open.

OF E



in flight Blower is nanomerically shot off. Blower intake closed, Ross sir open

package units fully automatic and interchangeable

behale de valent, conduites que fair comment ellers, consecutivat que en consecutivat de des deux consecutivat en consecutivat

your service the memory you call in your Indical reassurement.

Janitrol

BATT-AUTOMOTIVE DEVISION, INDIACE COMMISSION CORPORATION, TOLLOW U, BRID

F. Y. Daft, 201 Strategy, for Feb. B. Y. + C. F. Datest. 191 M. Sery S., St. Yard. Tel. + C. A. Daft, 290 Religion Self, Science Daft, - E. E. San, 460 Can Mar Sphere, Technique, B. C. + 191 A. Miller, State Sen, IEM Gendlers, Gold Miller State, State Self, State Self,

.



adherence to enablished door names and Ou Scot. 15, 1952, the enopon issued

a qualified core member to make the shocks of all batches for emobiles and security. Where there is one fight as

Abbook the 80ht corner had been ing program of bendarcaries of such de-The suppose from schooling is conentire with the door had been more than two years before the prophest, and there is fundamention on the solute.

Of course, the \$-577 operations second. which is received to be about the street and a number to all right over mumbers

Fra American World Airways temperadi accelerat was completed. The flight ever needed we compared. The region regand the captors naturall to flight status in his farmer cornelly. The Cord Association Administration

such the dellower setten as a result of the Administrative resegrate by letter to searth to older them to recognize to broaden continue, and to make fight erry appellers legelier with dear metho-Represented the captum by latter for tern, but not for sollid descript for the the flight orginer be surposded for free mortie subject to do house or nevol spon his pessag a watten, and by in sethorized agent of the CAA

rabet without taking further proceeding

FINDOKIS On the best of all analytic evidence the I. The copies, the normals and the every 2,600 feet, the color prepare dellevents var 41 cm 3. The man cabin door blow more in 4. This reside condition was not seeng-

I Fellowing the decomposition the State 5. The day belong exchange and all 10. The does frome and bosomed and

aged infloresty to per sed provest fully 11 Later tech severaled on its bodyus dain 13. This below revolute detectorist 13. The resupery did not excitate as ologory tensing propose solutor to exon the B 577, so that hazardous confidence could be avoided.

customer's fathers to recognitive on woods numbers of the color days decrets these



To MEN of SKILL and INTEGRITY offers BETTER JOBS HEALTHIER LIVING MODEL'S SPriportional in moments ... SPCDSDER to place interest recorder in the

SUN COUNTRY

ARIZONA

de the problet former, and

expedence in Known of repotence in Europe metrodom, write at We and Ehroyanic Mathematica.

RCDAFTCO

tente como e successivos

Chand Cantal Ecoseli Co. F.O. Ben 1072, Ferren, Avenue

city and state

Abwell [] About Belle

Thompson range tests radiation patterns of scaled plane

models, aiding elimination of radio blind spots. Solution to the actions doors non persons may jobs the persons markless, excels or animous new of badis The entern-developed by the Elecsolution patters of small predom on

tions in which the nationals must

P Ratio New Problems—Although Such

enter surrevivo (show 1,000 rec.) R7

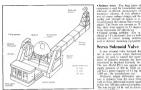


Flush Antenna Design Made Easier

If the wavelength of the RF energy sealed up to the same scale further mend

· Measuring tower, Arrives model is provisions for rotating the model and • RF power searc. Economical gos

AVAIDON WITH Much 10 1150



profied by a terrang-feel, condition. Bath. screbne through a velocer been · Received and streeter. A macrowale the model's seizeath or elevation por

on the encountry tower one cond to of 1,000 to 17,000 mr. Rush hera of poster the model to my desired equipped with recovery fittings, feeds F. Received Recorder-This cobinet conamplifies, which can be ted from either whested BF corny. To present the a long racted support can come stray reference of RF energy or chadren.

volture. Madolidine ferenzary is con-

ANATION WEEK March 25, 1953

nontides with a forestable retained in nomino of the asphas; cordel. The Proces Smole-Minourous speed in POtter Products-Among other prod· Consul scenng switches Also in

Servo Solenoid Valve sepain personns of 500 to 3,000 pa

Standard Controls, Inc., 1239 Poplar Small Components

· Record pressures dudes on dea bleargied, first in plastic and then in a ment Acadeble from laterational





acts of TP's Electronics Decrease are manufactures can operate 2,580 frace

SIMPLICITY in hydraulic pump design is important for these reasons:

The Peace hydrantic pump is a gear design—the surplest of all hydrantic pumps. There are actually only three moving parts in the pump proper. Force moving parts mana—

... less chance of pump malfunction
... less maintenance
... less cost for overhool

... less cost for a

plus the EFFICIENCY of "Pressure Loading" which makes possible:

"Premare Landag" is Penco's exclusive development that automatically helds and observed of guars to a than the of cel, thereby manualing the volusancia efficiency throughout the long

. . . volumetric efficiencies up to 97% over a wide range of temperatures

LIS STATISTICAL QUALITY CONTROL

which assures:

... a longer, trouble-free service life

Neightor of design, efficiency of "Pressaw Landing" and
Santonical quality control in all grains of nontrilicitum, and
statement quality control in all grains of nontrilicitum, and
superposit on reflainy and controlled asserts and on
many autorective and inflammal products. Write today
specific wear hopforties.



DRG-WARNER CORPORATION

per stoord. The new Type T relay corner is a souled playin case. C. F. s. Claim & Co., the cassisilators, user a ride has operated 5 believe harm with 3 a 575-ms. Bood over a ser-contin period without medipatement believing at 150 tel movie period. Described in Bulletin 117 19773 Want Sannayade Are, Claim

d more sprined Described in Bulletin 17 (1971) West Sunspake Arc., Clago St, H.)

Serve marke only one only in dissection and construction for single bull of the period of the server of the s



 Staind whey is hornesteadly scaled, weight 33 or, and reportedly scales the shock reparameter of MSLE-5400.
 Avaidable is DFBT twice with cell to rethreen up to 11,000 obers from Phasitres Ca. Relies contents as rated at 3 may 35 vd. at 157 Paradent Ava.

FILTER CENTER

► B-50 Genomed for Auto-Flight—The USAF expects publish to descondant in latest automoto Right techniques cub in 1934 in a B-50 new being cutforted as the sourcear in the AB-ANALISM WHE Moreh M. 1933

Watche Fries Division's C-9 which be Wattinghouse Eyes Asince Referneds a banded hight to England in 1997 The B-50 with the Lagrand in MacKether Refer and the Company of the Company of the case of the MacKether Refer in East Band on the Company of the MacKether Refer in East Spray-Scale opinion and the Company of the macKether Company of the Company of the Company of the Company macKether Company of the Company of the Company of the Company of the worker maning radie Refer and the Company of th

►Wincon Calls for Papers-Western Electronic Store and Convention to be letel dag. 19-21 in San Francesco has usuad a call for bechard papers to be presented at that san. Prospective sations should send title, a 323-west relation should send title, a 323-west relation of 520-west commerce at

The second control of the second control of



PRECISION WORKMANSHIP

BO Menas Beeliga, Tea, Water plays
no ferrar. Water lexis develation and
security with the second county of
security with the second county of
security with the second county
second county
security with the second county
se

here-ben, transp muscletarism as accessing that had disorder person and exchange finels and disorder person and exchange finels and so acceptance over a to accept a substance of the acceptance over a substance of the acceptance of the Newy's bloom obtained personal control and acceptance of the Newy's bloom obtained personal control and the Newy's bloom obtained personal control and the Newy's bloom obtained personal control and the Newy's bloom obtained to the Newy's bloom o



EQUIPMENT

New Tubing Fittings Cut Leakage Weatherhead attacks leaks with havin and flareless units that eliminate joints, reduce tube breaks.

By George L. Christian Cleveland-A new meltiple-type FLARED String over on amount take

and FeD I deltaming Skarp, according From Dista-Westherhead's duster firmy is maply a collective of several

NUT a takknowl to you taken . . .

DESARGHER darks slove poston creek point extent red not be * Flexies Fitting -New it princing to Ecouto funday wends take blines. non. Several large commercial actions P Ouch Appolir-Fitten u pet teeather speedly. The teleng is becaused

Weatherhead holds the Record for

check processes. Correct countries transcription of 212F and recking Tables and a Employment roath to present it from monar about

Approximately \$ on of tubers should

Prenetting Madrian-Workschad has developed a prenetting produced. held on a year other. Have operate shower

to a well the Shop-Workehold's behoustony or on the united stages of test pood hose that is drugged to take slogs up to 90 out and sed the holes within M accords. The tests should be completed to a month or so.

Stratos 'Wrings Out'

Air Cycle Unit

colled on to do need regged tobe that programs to prove its capabilities. The "wanging out" of a new see each observation and made by The unit, going into North Ameri-

event the unit's opening possure. nine peoplew conditions were set we Furbine operated continuously for 95 hours at 73,000 spin, with talet six temperatures of 236F. Air cuffet tora * Tempeurase. Machine was operated

. Pressure. Inlet pressures of 255 in Sys hours. Pressures were evided from package is reguled by a 193-fit. Fowera Flicks attends. Techine cookers won energical continuously for 31 suggestion non expected with markets in a 33 slee-

. Winterington, Marhane was "maked" to -67F. Turbing was storted by ones.

pentagel of 65,100 year with

OFF THE LINE

streeter & Smely Co. Ren 8th.



LOW-COST MAINTENANCE DOCK

then conventional hongon, it has comes work stocks and other proched popular-

Two of these howard manufit maintenance side was dots can take mer now singletwo or function commented should enflued avorting bearing of safeton. hen, Fr They are made of a sield steel simplifier fund on in the sources, Rediffers time streeten, galemand stret short motyear of the leasts to provide an exit day tized didge does to the end sell our the error less to 2012 it, body yourse ing and provide a means for billioner in



Wetertown Moss. WA 4-5520

A HYDRON OF

THE R. M. SLWYER & SON O



King-Size Aluminum Extrusions

than ever before—can be produced on this giver 14,000 spe press by Alcon For enemals, and flattened, saving greatly in reveting addresse bas

1800,C More Building a Printered 19, Fo.

Alcoa Free Alone Triese To Do-b" Books - after the use of

Aluminum

a 15-lock to a 23-lock circumscribing circle

-or from 600 pounds to 2,360 pounds per place! This press is wanther step in Alcon's

America's services andustry

NEW AVIATION PRODUCTS





ated newdon, partities exceed in years. and purces falling by gravity can be

* Reads floor in either direction, and

New Meter Measures Mass Flow A good advance on flow-measuring . Works with multiplease fluids such as

with the teat man rate of anothing be independent of density, volume, neoghbir or extend receives two which affect the readings of select types of flowmaters. Among other com, the . Wide magn of flow rates can be commaker suggests that the mater can give a deport and accounts conduct on mounts of the teacer sorsent to ear a radial

Airfreight Cost Cut

U. S. Plowood sees a big sixfreight schoped by the firm for shapping conbut make raser conditions toucher. in packaging, the company believes for about 50% of Televice inles, it limber, it can cut weight by up to reports. Because, Naufa Assertion. Be- scorely 50%, the firm states

tion, its wealth is been one half to not blenkets for dree-housest beds. It is sheet rustal parts at lower cost than remitted by softer measures rather U. S. Pleycod Care, Televool De

naddler which it replace

Prevents Freeze of Fire Truck Water

below a safe level. Heat is supprised by ethicue gheol beneght to temperature One Thermosetick, set at 60%, in in-

stalled in its exposed line. A second at 40%, a dues to their temperature and uceking properly. The switch weren of Eccentric Wheel

· Horponer spend in high enough for Speeds Cutting accords measurement of very newly chearing flows. Gives needing widon. A cutture wheel that moves in su

. Coeffected by applicational or other f. | H. Hollinger, Ltd. Other import . Presser deep through instrument is realizer reads the manufacturer an-Control Engineering Corp., November reflecting in precised and accuracy in with less regumes. Also, rauge the The muchine is being databased in

> Building-Block Radio be added for expression—providing ma-

The engineers on he shifted though 10 different combinations

both for LF and VHF two war com-

numble control (this way be a relay

Speed Limiter

100 100 spin lower tain the owitch atting. While to contact of the car Kolm & Co., Inc., 3124 Mars St.,



Avionic Blower

changes characteristic of Inglopeed he a 400-cycle or vogable frequency hows Tolograph Rd., Los Augster 22.



SEWING HOT SEAMS THAT ADD MILES ... by PASTUSHINE Modern, precision methods used by Fostushin Asiation to produce arcraft components make possible lighter, stronger princerolds fuel tooks to mereous range and combat effectiveness of Amer-





Broaching Machine The metine is decreed for flery AVIATION WEIG Mess 20, 1901

Flexible Metal Throat Feeds Fire in the Sapphire

Treasured motel have throat through which it gets its fact. Flow Toronacy Plouble All Metal Hose facils the Jill Jet because Toro-PLEX has of the qualifies countrie to safety and

structure assures feelfully and stretching and compression that wall taking the all-restal construction mornides must strength and

Let us help you mive your cornecting problems. Write for Meruture.

rafe, builthess performance under certainl processe, vikestica and With your of artistancing service in the cristical industry. Toronton tasker leads the axistion field in cretal has developments. You'd find and gention barness; off and feel bases \$400 death, naturated to daught of Treveste performance or 6 sts arthropol possibilities Oxideal



Ones we of Window had belowing from the the Welch



Valve Talk From 2000 feet up the carrier's deck looks like a obewing gain wrapper, arotionless except for a filery wake and a trace

She's as cute as a bug's cor... until you suddenly realise that your Skyraider pilet is going to put down on that your wanger... and in less than half its length? Too securables griesly what seem Nany Jackey once told year "Every carrier

As you shole house your price common our flor innercom in removal-heromically: "Nee"s printing. the deck's a for bad. has no recens. he've parage down. till nee?" You remai up pair shoulder sweeps and glover again at the finding. He selecting up after banks; and a first which the factor is a factor banks; of processes and browng you should watch the eight frong. Todaler, the At 100 loss off the motor, with wheels That underg fasting grate you for a second, then a storming impost persons worth, followed almost assembly discourses his posterior over a engine so has from soot Deck over no expectedly on the half. In the binning decision only should not third of the deck, from the should not third of the deck, from the property of the state of the state of the property of prope

before blassing very like a rock out of a clear, biting 1/20 kenns on 10 best on the clear thing brackers to the best pay less the form.

At takes the CV's deck is enoughed with treatfork, both one jet being a re andercomme.

Let operation varies lette, every there

on a street of the street of t You see the please only as skins-sing flakls and they not in a kins-sing flakls and they not in a coop in much finare done during drykghi-Once drive, their landing lights are suggest off and the allies roll forward Then they so off again, thursdowing up the bine of red lights that mark the the ricing in the December of ca-cus of speed and power of faccions. leg. Every come - photo, LSO's, dock eroses, controllers - more work in nerfore unions to here the thorstone. Now'll go a long way to top the bow'll go a long way to my the procession of earrier operations and the shift of currier relate. In our any creeks restraining blas a sweep sec-

place can have.

The arring landings day after day.

and departer of the work own has on alliegraphs of 15 to 45 don Verte commodated by charging the raternal support ring to the future. An index

rachooses or tra of the fature corraccarate increments secreting to seeds of the 10h. Power for indexing in Here's how the hearthire marking

The root segment is mousted in the Copuble of Bally automatic operation, the suchine primits single indexing,

or sudependent inching martions for all hydroxic units, recloding downed and separate sections for secondly in the Colocial Brusch Co. P. O. Box 37. Harper Station, Detroit 13, Mich.



Steering Unit

on the Yek American with electric ra a ricele, tienele mechannen. Easter

Steering is ecomplished hydraulicsilv with noner crimony. They replace What Holds the Holes



"A given to a collection of absences

Sente Ago, Cohforno, is deducted to sengle preduct. Here, highly trianed





THE PROPERTY - SECURITY - SECURIT Meate: New Sophies, Paraphones-Choops, Whole-Paraph, Military-Sons Are California



Hose Clamp Champ

WRITE TODAY to us Asso feel comple, suffring year

eal HOSE CLAMPS

BREEZE CORPORATIONS, INC.

Mowerk, New James

Gasket Seal

New Literature

2016. Heavy W. Clever Bldg., Pettsscribed in citalog used by Accord-

roblished by Garer Hederakes, Inc., Bushlack high-load structural first-

Different Problem with Richer, but





COLUMN PROSECTION OF ACT POSTLAGE SECTIONS for Thomas's COT Sentification is report of the commercial manufacted rest attended means or its year to be revealed by the







services (fished obeve) and Lond-Air.

LAND-AIR, INC.

449 WEST SUPPRIOR ST. CHICAGO IO ILL

ALSO ON THE MARKET

Lower cost for short-our stempmes with makede before of very sig describes as

Angle-Click pestneton, accounts to 5

Flag terminals of pure copper and elec-

Coffeige superded from criving car-

Stendard temperature test chambers

Improved drill press for long and short

AVEATION WEEK, North 36, 1952





AIRCRAFT PRODUCTS DIVISION Can Theat Char: A SIMIT TOO THE RETURE BECKER STREET



Parising-made NO Tenson

weed ... All Ochails to provide hower performance, streptified servicing performance on later pressures of 50-200 not. These models owner all currents koowo kamilianeo rendrements. Models according to Gail Assessmeles or specificasour nearest shope. Write or call . . . THE ARC EQUIPMENT CORPORATION, SEYAM, OWIO

AIR TRANSPORT

Big 4 Route Outlook: More Competition . Trunklines square off for fight to get parts of major bond prompts but sloply at he

cue alone A rawth corner, Eastern,

routes in arguments schoduled for early this spring. · But the number of competing applications will be

decided by CAR determination of score of each core. Carl Asymptotics Board replacement . Desper service pass. The For Times costs unclustons coveres held the Prominer William Madden cases seed may be broadcard for that *Tulus-Chishwan City serves com

All 14 truck sirking should have home Denver service, and New York. Charges come This work will rook street growth react the Board to Phanel Publications CAB paralace.

More competition is a new outcome tional server. These elements contr. these Higgs cases are skeptag up a New York Change over The Board

male way to do that other than he orbitan would host the her lines meet Lord Messa-The Board in decid the Ashbeller case In that case, the federal courts safed that CAB ment tions bosses by arreles to the conference

The New York-Change tuse has

But the Denver and Oklobous eases

sweet surjects rolling by Harmer Dency, CAB must across before deciding per-Oldshoon and Derver cours serve Take and Oklohesia City on the remarket posts, competitive deadless by obliges to the all survey terms for consolutation and Age 13 to

cutions, most sighteen channel the right count to County Ashier' mount for the classe reaction effect of the Ash * Boody Akenes wheel emuchdation of costs everyon via Persbeach re-Westington This is an example of the CAB consideration of TWA's hose pay rally involves Boostl's request. Besert request could awalve Data An Linea Atlanta New York application because Delta more Della Afteria and west effect Enters and Coptal, which is a Assessment subset for Pettybusch New Dry. America saled to dealerste

> from Deline to Houston. This and sev-· Netheral soled a reads from New York and Washington to Affanta and

Now Orlean, competitive with EAL

stockers on its possest New York-

mest ratem, consider then and

rate to DC fo, so how to FAL ways . Chicago & Southern told the CAS. on in April, but they put in mate UAL also swight to compete the TWA's New York Lee Aparles your ▶202 Density-Mercelely Cally ou Pittsbank, Dictor, Colombus, St. Loss, Absonesses and San Days. Unsted soled that these applications bearts four Marin 202s to supplement DC is on its Les Augeles-Sen-* Dennie Service Com-Assessors TWA's old application to compete

Chicago Denver sights American has

· Western Andrew solved for Degree - transporting these different soutes, which San Diego via Photene in effect asking would affect United. Western and . Condinged Addison out in those buts sho mked Dower-San Francisco via Sult. for costo extension to California. Chr. · Emtors south a route extension well would connect with all there remember · Brand sized Kenny City-December 17 TWA and United

conversion to DC le. Scotted many

to Person for the Martin macrifica-

Pioneer Will Sell Martin 2-0-2a

PAL agrees to reconvert to DC-3s despite its threat to fold following CAB refusal to grant extra subsidy. Pioneer Air Lenes Inst work sold Cool - The CAS deption experted Property Accusates Board it was property to about \$1 realbox a near for DC 5 operaof so Moras 24.5s. which CAB has time, material of the appendicularly \$1.5s. cheeded not to subsultur, and will recon-realison. Present relical to support its * Emergency Plea-All four CAB mem

problem is the conversion staff. Morerepeated a plea for \$846,000 emergency At the meeting with South, Long Before the decision in go along with and O'Cornell, CAB officials upper had combind up a letter to concludable offerent craims a han notifical room to

bers rewarded adorsent against the

on effect to not the environment Board to pletten of properties to DC to re for DC to and Mortin 2 8-2s Property

show. Other backers were a great of

non." CAR hat your industrial patter

Consumo Thomas Diffe and

ton oursel Raus on CAIFs paley of

calley of scending security and these durch fix too often, whale CAB only

stones "bur neighble studyed to ex-

ness commetition which, to an extrat.

ANATION WEEK Mand 30, 1952

CAB Policy

· Ryan warms of excessive New goods applications now pending. sieline commetition · Board favors carrier

merrers, chairman says. Oswald Ryon, trafficing before the torribing offerts to refece need for

* Policy Thron-Because the CAB stoff cand economic conditions" A minor taken to service of an average and calcoquent type," Bren und, "and this of a merger well Colored Authors Sorthern racyry, Racy and "coother

> unted local service unbeating at \$16.7 reflies in 1910, \$19.5 reflies in 1913 and 572.5 mellion on 1955. From 1953. cance.

· leterational siding operators of skeet of North Athense notice, say served by 11 arbacs, including two S, dopped from 71% in 1947 to

from 240 coding to 110 coffice. Thus

and most new reades possion in the in 1912, then prescribe increased

perhaps the most difficult took wheels

Here is the first of cide DCARs and end by ... will have 77 verticing such and will be used

School Belein Arbert prior to its deferry on bonet server embayeds installe. A

falls to Stockholm. The place flow from one of some will include two order extract New York to the Swedish cepted (4,000 ms) onto Engoes on Fig.W.s. 82900 CB15; and the create additions." Seminateriar, he is 12 he 16 min message Schem's DC-68e propr as Model 60000 Hascilton Steederft

Mede from underp "Florestee"-T

Air Facilities Buildup Planned in S. Pacific

Millourge, Autobis-Contraction lines traffic was reconwended this

In addition, describes unposed adop-

and non-frankly they make you make the formal of the local termination of the local termination of the formal of t recommendations proposed courses of RESISTOFLEX Shounder Safe and In proper from faces

DESIGN As attroust will be made to develop ENGINEERS DRAFTSMEN

Sentennel Introduction, My descript & Structures

TOOL DESIGNERS and DI ANNEDS LOFTSHEN DESIGN CHECKERS With Alterest Supplement * This is a lamptom program beautiful the design and development of the contract of the contra

KAISFR METAL PRODUCTS, Inc.

preceding of others and op-tioning to obvious. For solution,

sere site on the field and will cancerso

N. Y., agonft fest opportest more

Bush Airline Begins Scheduled Service

Guren Charlotte a sempong its fleet

1.918.FT. HADRO TOWER

The radio hower is said in special proomb. As Development Center was Functiont. City's famed Engine State Building's height

of 1,650 ft, including TV network. The tumes and its supporting orbits seem from Geer Hydratics, Inc., Broelder, lates

EAL's 1952 Profit Tops 88.5 Million Eartern Air Leaer' not prefit for 1952

milton net useld on sale of 32 DG-ba

ours good." Passages traffic down yield on the treffic volume. Richard backer was, adding that "for febure growth of andres traffic will be clouch amortisted with a circusch troffic P New Boston Couch-Eastern as

Firing Tiper Line based a C 51 from Finnings-Entron's 1912 net profit ever \$1 rection and gives revenues named \$10 million or \$100. Personne Finterestional Circl Adullion Owner. totson reports as American weather

negrecol a Beston tenacontracatel

alex 534.5 million transposition con-New Planes-Eastern new has received

racked nor believe of \$10.5 million for

ANIATION WITH March 10 1963.

National Arthres revenue presented

*Les Aegeles Airmore has a CAB

en beer making on to \$12.00 ms. and

March a year ago by 10% and 12%

SHORTLINES P. Alaska Airlines has storted six ex-

union merges Portland-South to 24 Aleka pents under contact with PAmerican Attitues sales CAB for new . TWIN ENGINE RENDER . AMERICAN AIRCRAFT POWER

THEST . SUPPLEMENT AMERICAN REMEMBER AND PURP AUTOTROS BOCKET Countribution operation . . . Company

starts weekly service to Bermedi ce. Aux 3 on Europeus fights * Bounna Air Lines February load factor was \$250 of concepts Passenger IN OPPORTUNITY values outsiled lengary, which was FOR P Eastern Air Lines bearing by GAR sendrat at Midway Aspect, Change, ENGINEERS was shood for Mir. 19 to Chango. Lunday may felded boared the end

Aeronautical Mechanical Electronic Flectrical Civit

SEARCHLIGHY SECTION

MATHEMATICIANS PHYSICISTS On the job training for persons having experience to industries other than aircraft

Sybest combined reposit with the doub-

THE GLENN L MARTIN CO. 302 TECHNICAL EMPLOYMENT **PALTIMORE 2: MD**

ANATION WEEK, March 38, 1957

Idlewild Facilities

ENGINEERS AND PHYSICISTS

The Delegas Research Stated of Canada reculous Graduate Engagests who is Quebec, PQ, in the following specialized fields:-

Some Mackaniana Engineer to every out towarth and development

serve system and with narrounded equipment describle. Electrical Engineer or Engineering Physicist with experience in elec-

Enchical Engineer or Engineering Physicist to direct electronic designs and electronic systems production engineering for publish canable of doneties the work of range executate Electronic Instrumentation Engineer—to carry out furnishmentation work on puried minders telemetering and range materialistics on-

necessary distrible. The employed most be couple at alsomer and

had yell not exceed about \$9,000 per annur-Employee Benefite: Modern and employed laboratories provide escalant lacibles and morking conditions for the undividual scientists, and every execution and househousehold incurrence plants are in office. Liberal

ELECTRONICS ENGINEERS

Attentive appetractive official to

substy leading and evaluation swall-

Corner Mr. S. C. Parkerstine.

Long Furth, Cultivrain

STRESS GROUP LEADERS RETIGNATER

Meddiwill MICENT COPPRISON

A & E MECHANICS EOR

C-119 and C-123 Aircraft Programs Interesting and algested work in the Flight Test Department. Write or apply in person to KAISER-FRAZER CORPORATION WILLOW BUN (Derwit) MICHIGAN

ENGINEERS WANTED

or or immediate specing for an ele-

ind Airest Darlam Co.

Men of Vision



of Pinci Segratation

county CDFATIPE environments research, development. and design . . the KEY to SOLID SUCCESS of GOODYEAR AIRCRAFT

If you are seeking a nanture where improvide personal initiative, and ability We have openings for able experienced personnel in the following fields of Taxal Property of Aprelionation or Feed Planelles of Total Presenting or then brody

per Berigaing in All Finish Personne are available in access) levels, inquires app flex monted from oner. Find exceptions and holidays, sain leave affilinguous and preparent office.

If you are managed to a mount follow white and since full should be



GOODYEAR AIRCRAFT CORPORATION - 1210 Mossillon Road, Akron 15, Ohio

We desire nonceptal of the birthest or thermannerlessed in the DESIGNERS-LAYOUT MEN

MECHANICAL DESIGN

SERVA This work deeds with the menulasters and development of highly couples evaluated of the most of vanced type in a new and expending division of on

established firm with 20 years of successful experience We also a few of the good recover why you saight like

EALARY between on board on much formal of the price fluctuations and another much variety (AAAY)28, fluctuation of the year to instrumental property of the price INSURANCE PLAN POSITIONS PERMANENT don to long Different muleciaries and developing d serving of chemical by

PRODUCTION EXECUTIVE

We have a position open that carries broad responsibillties in the field of production of bush performance

The successful conditions must have at least 12 to 15 years of heavy experience, with the last 3 to 5 years

in alecraft manufacturing in a responsible position.

He will have to be thoroughly familiar with the vari-

complete resume to P-7194, Amption Week, 520 N. Michigan

California Ormarturil for Armetics and Vibratica Englacery

problems to concerts and cost and associated products.

and military sterools

Salary open and dependent on ex-Control No. W. H. P. Drommed.

4-304). Estension 331.

DESCRIPT ARRESTS CAMPBEY INC. SANTA MONICA, CALIFORNIA

AIRLINE RADIO TECHNICIAN

including a familiarity with scholuling and cost control. College training is desirable but not essential. CHIEF OF STRESS industry in general is expanding at a fast pace. All recurrenced the held in strettest confidence. Qualified confi--- Annededus of CAA and Military to

> TOTAL ASSETS THE R. N. T. APIATION WILL MANA 20, 1952

AERODYNAMICISTS

MECHANICAL **ENGINEERS** SPECIALIZED IN

SALABIES OPEN Research and Development

THE PAIRS M. PAUSONS CONFIRM READDECK BUICETS, NAPYLASE

ROTARY WING AIDCRAFT

Long Street, C.A.A. Freezon

IACORS AIRCRAFT ENGINE COMPANY 750 Dates Steet Fatteren, Pe. Place Polisieure 1890

CHANGE MULMOSLIE DOLLERS PROCESS HAT BPENINGS FOR Charles of the Parison of the State of the S Process LOS ANERLES AIRWAYS, I AVIATION WERE Made 10 7053



SPECIAL OPPORTUNITIES FOR SENIOR ENGINEERS

Descriptional abraham to these propriet.

SAN DIEGO SAN CORD 12 CAUTCHNA



ATRODYNAMICS

CYPESS ANALYSIS

SERVO MECHANISMS

PILOTS the fig.t. altress it after moved and

Walter Trees at Parties and the Street of th

CALLYS CAPTURE SHOW STRAINS NO.

SUSINGSI OPPORTUNITY



Refere you decide County Mallard

TATALLY WHEE ME. PRINCIPLE APPROVE SALES A STRUCK MARKET THE Cowgl in with Co-Library below Dry for Spiker Or Sec.

46 Hour Sprain-MA Codyndon MED PRECIDENT DESCRIPTIONS Over 18 Years Ablies Executores PROCESS OF P Companion Albert

ENGINE WORKS

SEARCHLIGHT SECTION

RESCHCRAFT MODEL 50 TWIN BONANZA IMMEDIATE DELIVERY

Six place, high performance, all metal, low wing, tricycle landing gear. Adaptable to many uses. Delivered new in December, 1951. Equipped with full-feathering propellers Lagr L-2 Auto-Pilot

In excellent condition Mary he inspected at Teterhore, New Jersey,

Price subject to offer ATLANTIC AVIATION CORPORATION TETERBORO AIRPORT, TETERBORO, N. J.

DECEMBE P & W 16965TAN American Aircreft Core. Telebon, H.J. HA BOSTS -- 8.1483

IT'S TRUE!

Don't Shop Assund Witter Plane: Who

Art Teder Such Service

AVAILABLE FOR IMMEDIATE SPEED 200 MPE - BANKE 1900 ME LEEWARD ARROWATICAL

MINCHET We Supply Herd-to-Get Beens

MANUFACTURED AND REPORTED Mondy Endough Spagness and Supposest About and Serial Pursus Takes Statistics Season Serial Serial Sales ALLIED ELECTRONIC EQUIPMENT CO.

LOCKHEED PV-1

THE RESERVE OF THE PARTY OF

EXECUTIVE TRANSPORT ARCHAPT

INSTRUMENTS Authorized Eastery Sales Eclipse-Pioneer * Kolleman

* 11 S. Gauge Contractors to U. S. Alt Force

Our want of instruments is one of the INSTRUMENT ASSOCIATES

Tehabora Street Hart & LLC

S RECONDITIONED PLANTS

---MILLED MELICOPTERS Two Model 163-16M 1950 Condition and W. of the Name of Street, or w. Now York 10, New York ... Marries and Public Public

AIRCRAFT OPPORTUNITY AIRCRAFT IET POWER ENGINE PLANT ENGINEER MECHANICS THE OWN AND US

FLUTTER & VIERATION

OPPORTUNITIES FOR ADVANCEMENT

ATTENTION ENGINEERING PERSONNEL

BOX 6191, DALLAS, TEXAS

Qualified to Evolut Constitution course when prome Front and Enhancement GO Awares and Compensate Administrative Abilities

State with district and references General Meters Corporation Debut City Alexant

WEIGHT CONTROL

MATERIAL PROCESS LOFTING

MECHANICAL

LIAISON

RECENT ENGINEERING CRACK AM YES INTERESTED IN GETTING

China hearing to 1. 1. 1010193W MAC MECRAFT COMPANY, Inc. PULSA, OSLANDAA

processed on swelling to configure remarks a raped willing with leave invited far type of anytherman making year on expectation orders comprisely passed in another to compress to the first Annealized Engineering Leb

FOR LEASE

Assessment of the season of the season Delta of the Part of State of Congress of the

ANATION WITH Make to 1962 ANTATION WITH MALE IN 1811

BUY FROM ONE SOURCE! AIRPLANES ----

2-LOCKHEED 10E-1340 ENGINES-HYDROMATICS Sero time-sere meney-buy council alocalt parts from see of New License 344 050 co. the ferrorst ment discrifted werehouse stocks in the country

3-DC-4-PASSENGER AIRLINERS-R-2000-DSG ENGINES

Available "As It" as NTSO PRATT and WHITNEY ENGINES and PARTS WRIGHT

CENTRAL PURCHASING AGENCY, INC.

Literated at \$16s 226, between east Avenue MIAMI, PLA

READY TO SHIP NOW! PRATT & WHITNEY ENGINES Menulactured

THREE 82000-7 **ELASTIC STOP NUTS** No Time Since Commercial Overhaut B1830-65% Aircreft Hardware to AM Specifications No Time Since Overhaul \$1550.00

R. D. SHITH ARCRAFT ENGINE PARTS TOTAL SHERMAN WAY SUM VALLEY CALIBORNIA AFRO PASTEMENT DIV

FOR TALE BEECHCRAFT HYDROMATICS For D-18 Beechcraft

Complete ready by bandleiby with -MITCHERNET PATRICKTOR-ATLANTO AVAILURE CONFERENCES THEOREM ASSESS, COMMAND & A OHIO AVIATION COMPANY

647-A CENTRE SECTION Donning uppers. Committee with new skir. Less tunks. P. O BOX 125 MIRAS 25, PLENION Substitute of AND CARRIED SERVICE CORP. ITH CIT. MY VALABIETON C C

OHIO AT IN CHAIN

HANGARS FOR SALE PROPERTY OF TAXABLE - HE DECKED Chit Southle Wed Los Argelin I'd. Coll AND AA 1997 FEM. NAVES, Inc., NAS IN STOCK

Section Print In Street and Victorian Language Cont. EXECUTIVE LODGETAR TWIN BEECH DIES

tern implest contracted by F A W Brahamer Algorit Europetes, Mary Tork D-175 Executive Beech

IN THE PERSON AND THE COMMAND, INC.

LOCKHEED 12-A COLUMN TO STATE OF THE PARTY OF PLUSH EXEQUITIVE BO-2

STATISTICS OF STREET STATE STATE

BC-Cambi-Ya Laderbox ... 8-257 water allies coulty Tarant Twin Reach D-165 Bedenntit

Contour Mit Daden Panel AMC COAST

at attent *1 D000... \$500 196 ENG110

And Same

See year rep

manufacture Model

Transfer Com

Addition From

T HERETA LOSS

se corrects Today

2072

SACA.

TALL BE

ACCRETATE TO MAKE

ANALTION WEIG Morel 35, 1953

to Mile water to a

or sales.

THE STATE OF

entites. April 1 Trans CHERRY thin and

> MICH THE PERSON en Martinette Commi Status Value (Mago The Name of Street, 17 APRILLA AND THE GETTLES

Per san

en (0.1)

SI ANSTIDA Manha August Com ett nachpiet Adam THE MATERIAL ASSESSMENT TO \$100

Color Color

Marie Be

45 ADMIDS CHIM COMMERCIAL SURPLUS SALES CO A101 CLUTTE AVENUE PARTIMORE IN MARYLAND TELEPHONE: CURTYS 3300

LETTERS

Training Executives

in order to acquired all encounted with each other's responsibilities and problems, and

rescensed of their individual regions

G. Larrery, Jr., Vos Perdest.

Canobitated Value Aurest Corp. Son Thigh 12, Calif.

Done on Red Aviation

A.W.'s Fellowship

Mr. Rabert Hopes, Ja., in the year's American Wicza Fellow. His is one of the

Leb at Wright Field by Tress

You are entitled to contrible polic is

Monthauth hatitute of Turberbury

Prone Flight

Marconi VOR

approved on page 48 of year Feb 23 one solution to the Martin VOS nec-In fact, we mark aded the Civil

mandamong at a compare-sponsored Officer attracted to the CAA London Office tauches sufe the USAT or theater is England, give un whileheated

Simbor Deugles Co., Inc. 7 D. Eur 1997 of guidely acknowledging the large interest

Sept 713-1955 SBAC Connetion Year

AVIATION CALENDAR Mer 11 Age 2-First International Magnet

Age: 26 May 2-Annual Confusion of Tech

Age 25 New 3-Part record National Trees.

nest Symposius (AEE) Skill States

May 1416-America Helicopter Society Forem, Medicaser Hotel, Waltengton,

Mar 1922-Assent coverator Anaton Winter Ass., D. Work, Tex low 11 Ptallith named Al-Womes In-

PERSONAL PROPERTY AND PARTY. NO ASSESSMENT OF A PARTY June 17.19-And year raceting of Actions. ARREST ARRESTS AND THE TOTAL PROPERTY OF Chates Lale Leurs, Alberta Carada POLY I BY WELLOW PRATECT perchips, U. S. Nevel Air States, W. law Greer, Pa PROTESTING APPARENT COMP.

> AVIATION WEEK Mand 30, IND AVLATICAL WEEK, Mouth SE, 1955

ADVERTISERS IN THIS ISSUE

Manual and American Company of Person and St. Company PARTS TROSE MARIE W. C.

MACOUST MANY CENT Street Copy of Specials. MA CREWING ENGINEERING CO. SERVICE SAFELING SERVICE OF ST SERVICE. ARTHUM POLICES A PER CO. Fire states of the Party of the Party SHOULD STREET OF STREET OF STREET DATE COMPANY THE COMP

ARE DESIGNATED THE TAXABLE TAX

SPECIAL COST , Married Labor, Co.

same company of

CANCELL PROPERTY.

Acres such reads, but

11135 per cere a miles

PARTIES BATTERS PLACE

PERSONAL PROPERTY.

LAPRINTY BANKING THE CO., THE

COLUMN CONTRACT OF THE PARTY OF

AANMA CHARLETT, CO., 140

PERSON PROMETER CO.

LD4 OF THE PARTY

DESCRIPTION, PROPERTY AND MARK AND THE MARKET AND THE

Assertanta Co. Tis.

CONTRACTOR INC.

OWNER THE ME COST OF ARRESTS.

PROFESSION OF THE PARTY.

PARTY PARTY OF

PORTER THE A PARTY IN Front from

READ REPORTED BY ASSESS ASSESS. THE R. LEWIS CO., LANSING. MANAGEMENT BY MINER DERDOS, MADOR CHURS, DAY SERVICE AND ADDRESS. UNBARRED PROPERTY.

SQUAREST CO. U.S. STR. A. S. S. STREET STR. O. CONTACT SUPPRESSED AND THE REAL PROPERTY AND PERSONS NAMED IN ordered Belleville and a co

> V.A. P. PERSON SHIP WATER WHITE STREET, STREET,

> > Street, same

No. Sept to Spi Walter



THE MOTOR OF STREET, SEE IN COCCUMENTS

North American's Challenge To You Frankly, working or North Assertion

Salaries communerer with shifting and

ing capatitation a Complete amplique amount a program a Com of the lang formation and both and the lang terminal at the capatitation and the language and the l Please wite an for complete informa-

Write Today

CARCA TRASS COPPORTUNITIE or North American Assedsanse her Seculation is not beade as

NORTH AMERICAN AVIATION, INC East 15 Engaged to Farmond Office

EDITORIAL

A Blow to Local Service Lines

Lates' operation of Martin 2-02s, replacing DC-3s. cul srukst, it success doubtful if my public faureurs Even before the Board's decision on Ponses, sublic-"Moreover," Mr. Altschul swy, "with last one exceptant, Obsessly, as reported drawlack to tenchment or feeders in their heavy dependence on mad subside. It crating inflorest traffic to absenute subside eventually Part decision of the Board have established emple proteducts for a carrier to assume the influter is ac-These is a strong feeling to industry that the Board

is the learning used by CAR in the decision, in

Mr. Trippe Is No Ostrich

A lot of U S mister people are hiden they heads in the read to keep these approaches we corbany out Turn Trippe, proudent of Pro Assertion Armon, enot one of them Pen American behaves in the jet transport, despets the bendiches and problems it will bring it books up belief with the only firm order for jet pleases that any Mr. Borne's address (Assessment Wiene May 16) artise

due note that the set ordiner, like other newfount too small, too short range, superven operationally, etc. But the pitton engine has about reached its peak

Until atomic power arrives, the future belongs to the go taskine. How can we afford not to learn everything In one range, the Cornet I-tradeserving of some low such from Americo-bin accomplished two turch the in 25 years. Mr. Borger remards us. "Whale other tumo-

During those conong hours of jet trad and tribula-

process concertous applied as result of that expenence." It is sho worth noting, with a shadder, that by the Other operation around the world, some of them U.S. concentes, will also have reliable experience in

or not knowing how to first with requirem safety-etc. be extensely costly with skee procetaged at a comple of colline dollars or more maker. there are adultions to them all. Our contonners of the future will not be interested as the problems, only the

Denvite all of the problems of the jet welvier, present solutions. If we of U. S. eviation do not offer the solu-Mr. Triese and overpage not not traine to hide flows

Robert H. Wood

Bendix Torque-Link Steering

A new and better steerable nose gear design . . . Easier and more efficient steering action ... Important savings in weight,

space and maintenance.



Bearlie Torque &link forevent is a pugged pell-coornierd unde

which can be best to as an energy part of any non-more. Then simple compared watering until attentity that the topic of two communicational machinisms. The hydroxide provide cylinders are taken the plane of the significant contents contents or an include the plane of the significant contents or the provided of the plane of the significant contents of the significant states of the significant contents of the significan An addition oblinery dampering is more affective became dampening faces are applied as a point where there is the least amount of spring action in the restorm. Although Bagdin Yacque Link Steeping, is now conceptus of more efficient nearing nation is has been fully proved an power. After Cohemity in howevery term is in new being and the concept. After Cohemity Indian and the profiles or reading Bread a requester watcome the opportunity to noise sir frame cleritate; in the application of this Torque Lack Steading to their new application.



METERING FUEL

RENDIX MORES SOUTH BEND INCIANA



